



Attorney's Docket No.: 13445-012002 / L1 (MIT 7953)

Cofc

ITW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : John D. Joannopoulos et al. Art Unit : 2872
Patent No. : 6,903,873 Examiner : Fayez Assaf
Issue Date : June 7, 2005
Serial No. : 09/634,099
Filed : August 8, 2000
Title : HIGH OMNIDIRECTIONAL REFLECTOR

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OFFICE OF PETITIONS

Attn.: Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL OF REQUEST FOR CERTIFICATE OF CORRECTION

Applicant hereby requests that a certificate of correction be issued for the above patent to correct the name of the assignee pursuant to 37 CFR §3.81. Specifically, OmniGuide Communications was incorrectly listed as the assignee on the Issue Fee Transmittal Form (PTOL-85B).

The correct assignee is the Massachusetts Institute of Technology based on an assignment from the inventors to the Massachusetts Institute of Technology. The assignment was recorded at the USPTO at Reel/Frame 009945/0235 on May 13, 1999 in connection with the parent of the present application (U.S. Serial No. 09/253,379, now issued as US Patent No. 6,130,780).

Accordingly, pursuant to 37 CFR §3.81 the assignment was submitted for recordation before the issuance of the present patent, which issued on June 7, 2005. Furthermore, during the prosecution of the present application, a Terminal Disclaimer was filed stating that both the patent issued from the parent application and the present application were commonly owned by the Massachusetts Institute of Technology. A copy of the assignment and the Terminal Disclaimer are attached for your reference.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

10/31/2005 NNGUYEN1 00000051 6903873

01 FC:1811

100.00 OP

Repln. Ref: 10/31/2005 NNGUYEN1 0011234300

DAH:061050 Name/Number:6903873

FC: 9204 \$130.00 CR

Date of Deposit

Signature

Typed or Printed Name of Person Signing Certificate

10-26-05

Cheryl A. Aaron

CHERYL A. AARON

Applicant : John D. Joannopoulos et al.
Patent No. : 6,903,873
Issued : June 7, 2005
Serial No. : 09/634,099
Filed : August 8, 2000
Page : 2 of 2

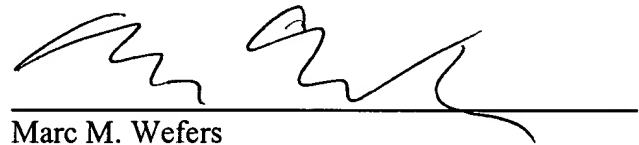
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)

One or more of the errors sought to be corrected were made by applicant, and a check for \$100 is enclosed to cover the required fee of 37 CFR §1.20(a). Also, further pursuant to 37 CFR §3.81, a check for \$130 is enclosed to cover the required processing fee of 37 CFR §1.17(i).

Please apply any other charges or credits to Deposit Account No. 06-1050, referencing 13445-012002.

Respectfully submitted,

Date: 10/25/05



Marc M. Wefers
Reg. No. 56,842

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

21193384.doc

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SUBSTITUTE FORM PTO/SB/44 (5-03)

 FISH & RICHARDSON P.C.

Staple
Here
Only

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO. : 6,903,873
DATED : JUNE 7, 2005
INVENTOR(S) : JOSHUA N. WINN, YOEL FINK, SHANHUI FAN AND JOHN D. JOANNOPOULOS

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Cover Sheet

Assignee, replace "OmniGuide Communications, Cambridge, MA (US)"
with --Massachusetts Institute of Technology, Cambridge, MA (US)--

MAILING ADDRESS OF SENDER:

Marc M. Wefers, Ph.D., J.D.
Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110

PATENT No. 6,903,873

No. of add'l copies

ASSIGNMENT

Know all men by these presents that:

WHEREAS we, John D. Joannopoulos
64 Douglas Road
Belmont, MA 02178
and
Shanhui Fan
50 Porter Street
Somerville, MA 02143
and
Joshua N. Winn
16 Josephine Avenue #2
Somerville, MA 02144
and
Yoel Fink
60 Wadsworth Street, Apt. 22E
Cambridge, MA 02142

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have made an invention for

HIGH OMNIDIRECTIONAL REFLECTOR

described in the application filed with the United States Patent and Trademark Office on February 19, 1999; as Serial No. 09/253,379, which claims priority from United States Provisional Patent Application Serial No. 60/075,223, filed February 19, 1998; and

WHEREAS Massachusetts Institute of Technology a corporation duly organized and existing under the laws of Massachusetts and having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02139, for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the said invention, the said application, all inventions disclosed in said application and any and all Letters Patent of the United States and of all other countries which may be granted for the said invention or inventions, or any of them;

NOW, THEREFORE, for good and valuable consideration provided by said Assignee, the receipt whereof is hereby acknowledged, we do hereby sell, assign and transfer to the said Assignee the entire right, title and interest in and to the said invention, inventions and application, including all priority rights arising therefrom, all inventions disclosed in said application, and any and all Letters Patent of the United States, and of all other countries, together with the right to apply for such Letters Patent, which may be granted for the said invention, inventions or any of them,

TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said Letters Patent, to said

Massachusetts Institute of Technology

its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

AND we hereby authorize and request the Commissioner of Patents of the United States and the appropriate officers of all foreign patent offices to issue any and all Letters Patent which may be granted on the said application or applications above referred to, or for the said invention, or any of them, to the said Assignee in accordance with the terms of this instrument.

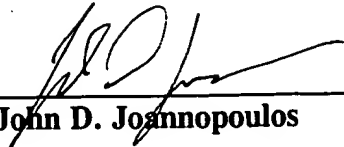
AND we hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignee fully to secure to said Assignee its interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND we further covenant and agree that we will at any time upon request communicate to the said Assignee, its successors, assigns or other legal representatives, any facts known to us relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND we hereby covenant for ourselves and our legal representatives that we have not hitherto assigned or granted any license to make, use or sell said invention, and that we will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on the dates below.

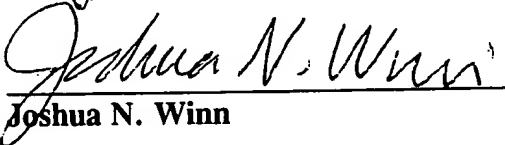
5 May 99
Date


John D. Joannopoulos


5 May 99
Date


Shanhui Fan

5 May 99
Date


Joshua N. Winn

5/5/99
Date


Yoel Fink



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : John D. Joannopoulos et al.
Serial No. : 09/634,099
Filed : August 8, 2000
Title : HIGH OMNIDIRECTIONAL REFLECTOR

Art Unit : 2872
Examiner : Fayez Assaf

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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TERMINAL DISCLAIMER UNDER 37 CFR §§3.73(b) AND 1.321(b)

Pursuant to 37 CFR §3.73(b), MASSACHUSETTS INSTITUTE OF TECHNOLOGY, certifies that it is the assignee of the entire right, title, and interest in the above application by virtue of an assignment from the inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 9945, Frame 0235 on May 13, 1999. Massachusetts Institute of Technology also certifies that it is the assignee of U.S. Patent No. 6,130,780. A copy of the assignment is attached for your reference.

The undersigned has reviewed all the documents in the chain of title of the above-identified application and to the best of undersigned's knowledge and belief, title is in Massachusetts Institute of Technology.

The undersigned is empowered to act on behalf of the assignee.

Pursuant to 37 CFR §1.321(b), and to obviate a double patenting rejection, the assignee identified above hereby waives and disclaims the terminal portion of the term of the entire patent to be granted upon the above identified application subsequent to the expiration date of U.S. Patent No. 6,130,780, whereby the patent granted on this application and U.S. Patent No. 6,130,780 will expire on the same day, provided that any patent granted on the above identified application shall be enforceable only for and during such period that it is commonly owned with U.S. Patent No. 6,130,780.

The assignee identified above does not disclaim any terminal part of any patent granted on the above identified application prior to the expiration date of the full statutory term of U.S. Patent No.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit

Signature

Typed or Printed Name of Person Signing Certificate

11-4-04

Cheryl A. Caron

CHERYL A. CARON

Applicant : John D. Joannopoulos et al.
Serial No. : 09/634,099
Filed : August 8, 2000
Page : 2 of 2

Attorney's Docket No.: 13445-012002 / L1 (MIT 7953)

6,130,780 in the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR §1.321(a), has all claims cancelled by a reexamination certificate, or is otherwise terminated prior to expiration of its statutory term, except for the separation of legal title as stated above. Assignee herein does not disclaim or otherwise affect any part of U.S. Patent No. 6,130,780.

This disclaimer runs with any patent granted on the above application and is binding upon the grantee, its successors or assigns.

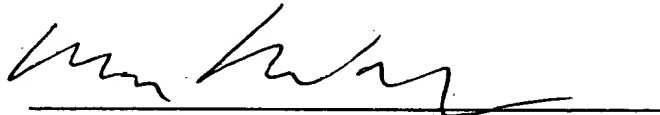
Please charge any additional fees, or make any credits, to Deposit Account No. 06-1050, referencing Attorney Docket No. 13445-012002.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

Date: _____

11/13/04



Marc M. Wefers* for
David L. Feigenbaum
Reg. No. 30,378

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

***See attached document certifying that Marc M. Wefers has limited recognition to practice before the U.S. Patent and Trademark Office under 37 C.F.R. § 10.9(b).**



**BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE
UNITED STATE PATENT AND TRADEMARK OFFICE**

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LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)

OFFICE OF PETITIONS

Marc M. Wefers is hereby given limited recognition under 37 CFR §10.9(b) as an employee of Fish & Richardson P.C., to prepare and prosecute patent applications wherein the patent applicant is the client of Fish & Richardson P.C. and the attorney or agent of record in the applications is a registered practitioner who is a member of Fish & Richardson P.C. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Marc M. Wefers ceases to lawfully reside in the United States, (ii) Marc M. Wefers' employment with Fish & Richardson P.C. ceases or is terminated, or (iii) Marc M. Wefers ceases to remain or reside in the United States on an H-1B visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

Expires: December 6, 2004

**Harry I. Moatz
Director of Enrollment and Discipline**



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 16, 1999

SAMUELS, GAUTHIER, STEVENS & REPPERT
MATTHEW E. CONNORS
225 FRANKLIN STREET
BOSTON, MA 02110

PTAS RECEIVED

JUL 29 1999

SAMUELS, GAUTHIER
& STEVENS LLP



101040179A

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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/13/1999

REEL/FRAME: 9945/0235
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

JOANNOPOULOS, JOHN D.

DOC DATE: 05/05/1999

ASSIGNOR:

FAN, SHANHUI

DOC DATE: 05/05/1999

ASSIGNOR:

WINN, JOSHUA N.

DOC DATE: 05/05/1999

ASSIGNOR:

FINK, YOEL

DOC DATE: 05/05/1999

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF
TECHNOLOGY
77 MASSACHUSETTS AVENUE
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09253379

FILING DATE: 02/19/1999

PATENT NUMBER:

ISSUE DATE:

9945/0235 PAGE 2.

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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RECORDATION FORM COVER SHEET

05-18-1999

HONORABLE COMMISSIONER OF
PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

SIR:

OCT 28 2005

101040179

PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT(S) OR COPY(IES) THEREOF.

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NOV 03 2005

CPR/FINANCE

OFFICE OF PETITIONS

1. NAME OF CONVEYING PARTY(IES)

John D. Joannopoulos
Shanhui Fan
Joshua N. Winn
Yoel Fink

Additional name(s) of conveying party(ies) attached? No

2. NAME(S) AND ADDRESS(ES) OF RECEIVING PARTY(IES)

Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, Massachusetts 02139

Additional name(s) of receiving party(ies) attached? No

3. NATURE OF CONVEYANCE

- ☒ Assignment
☐ Security Agreement
☐ Merger
☐ Change of Name
☐ Other

Execution Date:

05/05/99

4. APPLICATION NUMBER(S) OR PATENT NUMBER(S)

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No(s): 09/253,379

B. Patent No(s): _____

Additional numbers attached? No

5. NAME AND ADDRESS OF PARTY TO WHOM
CORRESPONDENCE CONCERNING DOCUMENT
SHOULD BE DIRECTED:Matthew E. Connors
Samuels, Gauthier, Stevens & Reppert
225 Franklin Street
Boston, Massachusetts 02110
(617) 426-9180, Extension 1126. TOTAL NUMBER OF APPLICATIONS
AND PATENTS INVOLVED: 1

7. TOTAL FEE DUE: \$40.00 (Enclosed)

If any additional fee(s) are due, the Commissioner is hereby
authorized to charge the Deposit Order Account noted in item 8.

8. DEPOSIT ACCOUNT NUMBER: 19-0079

05/17/1999 JSHABAZZ 00000090 09253379

9. STATEMENT AND SIGNATURE

01 FC:581

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy
of the original document.Matthew E. Connors
Name of Person SigningMatthew E. Connors
Signature

Date

5/10/99

Total number of pages including cover sheet, attachments, and document: 5

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being
deposited with the United States Postal Service on the date shown below with sufficient postage as first
class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C.
20231.

Deborah M. Costello

Deborah M. Costello

Date: 5-10-99

ASSIGNMENT

Know all men by these presents that:

WHEREAS we, John D. Joannopoulos
64 Douglas Road
Belmont, MA 02178

and

Shanhui Fan
50 Porter Street
Somerville, MA 02143

and

Joshua N. Winn
16 Josephine Avenue #2
Somerville, MA 02144

and

Yoel Fink
60 Wadsworth Street, Apt. 22E
Cambridge, MA 02142

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have made an invention for

HIGH OMNIDIRECTIONAL REFLECTOR

described in the application filed with the United States Patent and Trademark Office on February 19, 1999, as Serial No. 09/253,379, which claims priority from United States Provisional Patent Application Serial No. 60/075,223, filed February 19, 1998; and

WHEREAS Massachusetts Institute of Technology a corporation duly organized and existing under the laws of Massachusetts and having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02139, for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the said invention, the said application, all inventions disclosed in said application and any and all Letters Patent of the United States and of all other countries which may be granted for the said invention or inventions, or any of them;

NOW, THEREFORE, for good and valuable consideration provided by said Assignee, the receipt whereof is hereby acknowledged, we do hereby sell, assign and transfer to the said Assignee the entire right, title and interest in and to the said invention, inventions and application, including all priority rights arising therefrom, all inventions disclosed in said application, and any and all Letters Patent of the United States, and of all other countries, together with the right to apply for such Letters Patent, which may be granted for the said invention, inventions or any of them,

TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said Letters Patent, to said

Massachusetts Institute of Technology

its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

AND we hereby authorize and request the Commissioner of Patents of the United States and the appropriate officers of all foreign patent offices to issue any and all Letters Patent which may be granted on the said application or applications above referred to, or for the said invention, or any of them, to the said Assignee in accordance with the terms of this instrument.

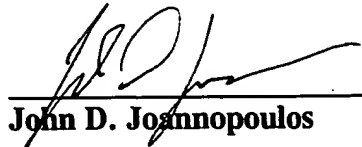
AND we hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignee fully to secure to said Assignee its interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND we further covenant and agree that we will at any time upon request communicate to the said Assignee, its successors, assigns or other legal representatives, any facts known to us relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND we hereby covenant for ourselves and our legal representatives that we have not hitherto assigned or granted any license to make, use or sell said invention, and that we will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on the dates below.

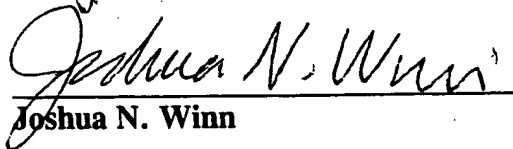
5 May 99
Date


John D. Joannopoulos


5 May 99
Date


Shanhui Fan

5 May 99
Date


Joshua N. Winn

5/5/99
Date


Yoel Fink



I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited on the date shown below in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EM US addressed to the: Commissioner of Patents and Trademarks, Washington, D.C. 20231.


Deborah M. Costello

Date: 5-10-99

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